QTube

Installation & User Guide

V5.2

This manual is revision B

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Overview & Installation

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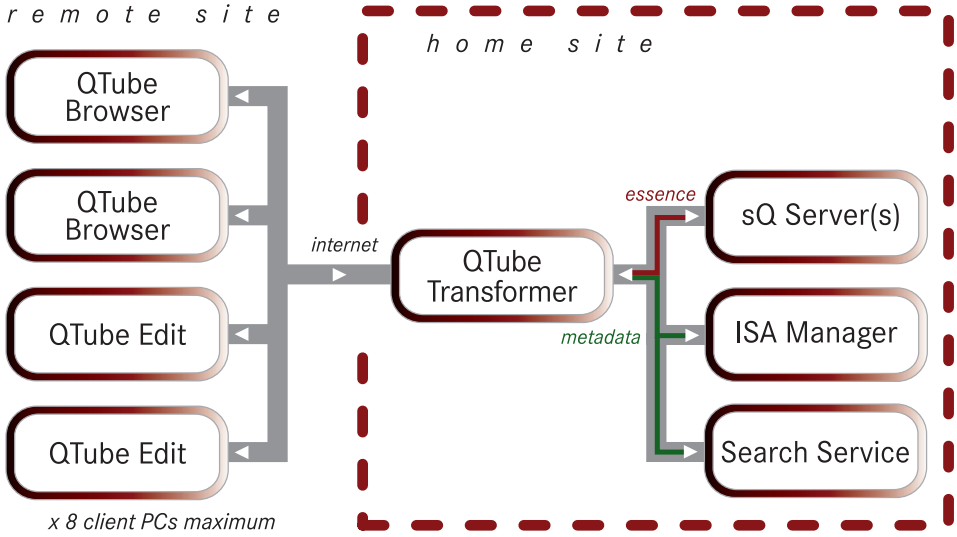
Introduction

What is QTube?

QTube allows media assets to be quickly and securely accessed from anywhere that has an internet connection. QTube allows you to view and download media, edit metadata and undertake frame accurate editing. You can combine HD with SD and local with remote media on the timeline. Live material being recorded can be viewed and edited remotely during capture.



You can create an edit combining local content with any library footage from the central base and then quickly deliver the finished edit to base ready for multi-platform output. If required, local language voice-overs can also be added to centrally held content.

Quantel's Frame Magic tracks every frame and identifies whether it is remotely or locally held. This means that only new frames are transferred over the internet, resulting in an efficient transfer. Microsoft IIS secure authentication and SSL encryption is used to protect media assets.

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System Components

QTube provides QTube Browser and QTube Edit, which allow you to browse and edit material remotely via the QTube Transformer server PC. The browsing and editing GUI and functions are detailed in chapters 2 and 3:

QTube Transformer is a server PC of the specification described in this guide. The QTube Transformer provides the interface between the sQ Server system and QTube web clients. It controls security, encryption and the file modification necessary in delivering a smooth user experience via the internet.

QTube Browser provides viewing of remote sQ Server held content via a PC with Microsoft Silverlight installed. Authorised users can search for clips throughout the sQ server system, play-back clips, add production notes, create cuts-only edits, publish clips back to the server and download media.

QTube Edit is internet-enabled software allowing editing to be performed on media held remotely on an sQ Server system. QTube Edit is based on the standard Quantel editing GUI and can be installed on a PC of the specification described in this guide.

Timelines can be created remotely using browse quality media, with only the edit decisions and any new video/audio essence published back to the sQ Server. Locally ingested media can be mixed with remote media and edits created remotely are immediately ready for play-out.

See chapters 2 and 3 for details of using QTube Browser and QTube Edit.

Technical Overview

Please note the following before installing and using QTube:

i Quantel recommends a high-quality and continuous internet connection for all QTube clients. QTube Edit should be operated via a fixed (not 3G, 4G or other mobile), high-quality internet connection to the QTube Transformer. The connection is required throughout the editing session.

ii QTube can be a software-only product or an option of hardware for the transformer provided by Quantel with the software. Hardware for the QTube Edit and QTube Browser is provided by the customer.

iii QTube Edit is a Version 5 workstation which creates V5 AAFs. AAF files are forwards

compatible but not backwards compatible, so a timeline created in a V4 studio-based workstation opens with history in QTube Edit. An edit published from V5 and opened in a V4 workstation does not have full history.

iv sQ Server is based on a single frame-rate: 25 or 29.97 frames per second. QTube editing is available in 25 or 29.97 frames per second. Mixed frame-rate editing is not supported. Browsing and metadata editing using QTube Browser is available to either frame rate.

v QTube supports access to all sQ Server held clips and includes live video recordings[1], live file ingest[2], completed recordings/file ingest, sub-clips and edits.

vi QTube is transparent to SD (4:3 and 16:9) and HD[3].

[1] For live video recordings, QTube access is less than 30 seconds behind the 'record head'.
[2] For live file ingests, QTube access is dependent on browse (LBR) creation in the home server.
[3] 720 50/60p content will be edited on odd frame boundaries, ie at 25/29.97 frame rate.

System Environment

Please note the following before installing and using QTube:

i QTube is supported by Quantel sQ ISA V4 and later.

ii QTube demands sQ system bandwidth, both for drawing on proxy files and when uploading new high bit-rate (HBR) media. Pre-existing systems require a bandwidth audit and possible modifications.

iii Proxy (LBR) generation resources must be sufficient to manage new media generated by QTube Edit clients.

iv QTube Edit must be homed on a single site: defined as a location containing one or more ISA systems configured as one or more Zones, Pools or Areas.

v In a multi zone site, QTube requires an sQ Search service installed for each Zone which is made visible to external users.

vi QTube supports sQ Server proxy files based on MPEG 1 @ 1.5 Mb and H.264 square pixel browse.

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vii QTube Browser clients can be pointed at multiple sites using bookmark shortcuts for each location and within the GUI.

viii A QTube Transformer is created on either a single PC or a redundant pair of PCs. Load-balancing between PCs is not supported in V1.0. Each PC requires its own IP address.

ix Each QTube Transformer supports multiple concurrent streams (ie multiple clients) for viewing/shot selection in QTube Browser or QTube Edit. One Transformer can support eight streams for MPEG 1 or five streams for H.264. For more streams, multiple Transformers may be installed.

x QTube carries up to eight audio tracks. Audio is AAC encoded at 128k outward from sQ Server.

xi QTube Edit supports monitoring, editing and output patching of 8 audio tracks which can be configured as mono, stereo or quad tracks.

xii Local audio (modified server audio/voiceover/imported audio files) is published uncompressed.

Security/Licencing

The web server is Microsoft IIS 7.5 shipped with Windows Server 2008 R2.

i Authentication-level security is provided. A user must provide a valid username and password in order to access content via QTube Browser or QTube Edit. When accepted, a user has full unrestricted access to the functionality of both user interfaces.

ii The QTube Transformer does not monitor the number of connected users. It is the responsibility of the system administrator to issue logins/passwords up to the number of streams installed and licenced. Traffic is recorded by QTube Transformer logs; if the number of users exceeds the licenced streams, performance is not guaranteed.

iii All download essence may optionally be encrypted using SSL, with at least 128 bits of encryption.

PC Specifications

QTube Transformer

Minimum PC Specification

(For a maximum of 8 play-back streams for MPEG1 or 5 play-back streams for H.264)

- Dual Xeon 6 Core Processor X5670 or better
- 6 GB triple channel memory configured for maximum bandwidth
- 2 x Western Digital WD3000BLH – 300Gb, 10 000 rpm SATA drives configured as RAID 1
- Dual Intel 82576 Gigabit Network connections (or equivalent)*
- Dual redundant PC power supplies
- Microsoft Windows Server 2008 R2 64-bit.

Recommended PC Specification

The specification above is for a maximum of 8 streams for MPEG 1 or 5 streams of H.264 only. For more streams, multiple Transformer PCs are required. In this case the number required should be calculated at 6 streams per PC at the spec below. Quantel can provide the following 1026T-URF model if required:

Supermicro 1026T-URF Superserver (1U PC):

- 2 x 5500\5600 series Xeon processors (LGA 1366)
- 12 x 240 pin DIMMs sockets; supports up to 192 Gb Registered ECC DDR3 memory
- Intel 5520 Chipset
- 1 x UIO slot
- 1 x PCI-E x16 slot
- 6 x SATA2 ports
- Dual Intel 82576 Gigabit LAN ports (supports Jumbo Frames)

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- 2 x COM ports
- PS/2 keyboard & PS/2 mouse ports
- 6 x USB2 ports
- Matrox G200eW onboard graphics
- 8 x 2.5 Disk slots; supports SAS, SATA and solid state drives
- Dual redundant 650W PSUs
- DVD-ROM Drive.

Dual Xeon X5670 CPUs 2.93Ghz Hex Core:

- 256Kb L2 Cache per core
- 12 Mb L3 Cache shared between all cores
- 3 Channel Memory Controller
- 2 x 6.4 Gbps QPI links.

6off 1 GB PC3-6400 REC ECC DDR3 DIMMs:

Configured to obtain maximum memory bandwidth.

2x Western Digital VelociRaptor WD3000BLFS Core:

- 300 Gb
- 10,000RPM
- Configured as RAID-1 (Adaptec Firmware)
- Fit to SATA ports 0 & 1.

* Network Interface Specification: Dual GigE Intel 82576 Network interface ports are recommended for high performance connections to the QTube Transformer PC. Jumbo frame connection to the sQ system is recommended for best performance. Jumbo frames must be enabled where the sQ system connected to includes Clipnet 1 network cards.

QTube Edit

LBR View & Edit with Voice Over Function

Minimum PC Specification

- Intel Core 2 Duo 2GHz or better
- 2 GB Dual Channel Memory
- DirectX 9 compatible graphics processor with WDDM driver, Pixel shader 2.0 (or later) in hardware, and a minimum of 128 MB of Video RAM
- 1 x 7,200 rpm SATA or SAS disk drive with a minimum of 20 GB available for Audio and Data partitions**
- Windows 7 compatible sound card
- Keyboard & mouse
- Microsoft Windows 7 Professional 64-bit.

Recommended PC Specification

- Intel Core i5 or better
- 4 GB Dual Channel Memory
- DirectX 9 compatible graphics processor with WDDM driver, Pixel shader 2.0 (or later) in hardware and a minimum of 256 MB of Video RAM
- 1 x 7,200 rpm SATA or SAS disk drive with a minimum of 30 GB available for Audio and Data partitions**
- Windows 7 compatible sound card
- Keyboard, mouse and monitor with 1600 pixel min. Horizontal resolution
- Microsoft Windows 7 Professional 64-bit.

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LBR View & Edit with Voice Over & Local Video Content

Minimum PC Specification

- Intel Core 2 Duo (E6600 or better)
- 2 GB Dual Channel Memory
- DirectX 9 compatible graphics processor with WDDM driver, Pixel shader 2.0 (or later) in hardware, and a minimum of 256 MB of Video RAM
- 2 x 7,200 rpm disk drives with a minimum of 30 GB available for Audio and Data partitions and 50 GB for Video**
- Windows 7 compatible sound card
- Keyboard, mouse and monitor with 1600 pixel min. Horizontal resolution
- Microsoft Windows 7 Professional 64-bit.

Recommended PC Specification

- Intel Core i7-920 2.66 GHz or Core i7-860 2.8GHz (or better)
- 4 GB Dual Channel Memory
- DirectX 9 compatible graphics processor with WDDM driver, Pixel shader 2.0 in hardware, and a minimum of 256 MB of Video RAM. (ATI 6000 series or Nvidia GTX480 series or better)
- 2 x 10,000 rpm SATA or SAS drives**
- Windows 7 compatible sound card
- Keyboard, mouse and monitor with 1920 pixel min. Horizontal resolution
- Microsoft Windows 7 Professional 64-bit.

** Disk Drive Size: Sufficient drive space is required to install and run QTube software. A minimum of 8 GB is recommended for the install and log usage for QTube Edit. For QTube Transformer a Data partition of 20 GB minimum size is recommended.

All QTube Edit seats require some local storage for audio workspace. It is recommended that this workspace is provided on a separate partition for ease of management and to prevent

file fragmentation. 12 GB of space provides storage for 4 hours of 4 channel and 2 hours of 8 channel audio. Where possible, it is suggested that at least 4 hours of storage (4 or 8 track as appropriate) is provided.

Likewise for QTube Edit with video, a separate partition should be provided for local storage of quality media as required. 51 GB provides space for 1 hour of HD video at 100 Mbit or 2 hours of SD IMX or DVCPro 50 data. Video and audio partitions should be placed on separate drives to improve overall performance during play-back.

QTube Edit software requires Microsoft Windows 7 Professional edition 64-bit. QTube Transformer software requires Microsoft Windows Server 2008 R2 64-bit. No other operating systems are supported.

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Transformer Configuration

Prerequisites

To set-up a QTube remote system you need the following:

i A working ISA sQ system that is configured to support a seat and has H.264 and/or MPEG-1 browse at 1.5 Mbit. The ISA system also needs the search service installed.

ii A newly installed Win 2008 R2 on an X8 motherboard.

iii For convenience, customise the Windows Start menu to make Administrative Tools appear on this menu.

iv Access to the internet; to download extra parts for IIS.

v An installer package containing QTube Transformer & QTube Edit.

vi A synchronised clock, otherwise you cannot connect to remote shares.

vii VC9 Restributable (VC Runtime) must be installed.

viii You must be logged in as 'Administrator'.

The above options are usually set on installation by Quantel trained engineers with knowledge of Windows and networking. If in doubt, always contact Quantel 24 Hour Support before changing any setting.

Verifying the Correct Version of Windows

Microsoft Windows Server 2008 R2 is different to Microsoft Windows Server 2008. Ensure that you are using the correct Release 2 edition.

1. On the desktop (or File Explorer) right click on **Computer** and select **Properties.**
2. The first section on the right should read 'Windows Server 2008 R2 Standard'.

Transformer Installation

Configure Operating System

The operating system must have specific settings applied to ensure all software components are linked together:

Switch on Jumbo Packets

1. From the **Start** menu load the **Control Panel.** Press **Hardware and Sound.**
2. In the **Devices and Printers** section, press **Device Manager.**
3. Press on the arrow to the left of **Network adapters** to expand it.
4. Right-click on the adapter pointing to the ISA and sQs (**quanet**) and select **Properties.**
5. Select the **Advanced** tab.
6. In the **Settings** list select **Jumbo Packet.**
7. Change the **Value** in the list box to **9014.**
8. Press **OK**. The cluster adapter remains on the normal 1500 MTU setting.

If you are using Remote Desktop you may be temporarily disconnected, but it should reconnect after a short time.

Turn off Firewall

1. From the **Start** menu load the **Control Panel.**
2. In the **System and Security** section press **Check firewall status.**
3. In the left panel press **Turn Windows Firewall on or off.**
4. In **Home or work (private) network location settings** select the **Turn off**

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Windows Firewall (not recommended) radio button.

5 In **Public network location settings** select the **Turn off Windows Firewall (not recommended)** radio button.

6 Press **OK**.

Install Transformer Software

Install from .exe & Generate Locking Code

1 Right-click on the executable **QTube Transformer Vx.x rev x.xxx setup.exe** and select **Run as administrator.** After a short wait, the product selection page displays.

2 Select **QTube Transformer** from the product drop-down list.

3 Press **Install.**

4 DO NOT IGNORE THIS STEP! When installation has finished, tick the **Run** box to start it. The start-up process now populates the remainder of the registry entries that are not created by the Settings panel.

5 When it fails to load press **<CTRL> + <F9>** to exit.

6 Load **Internet Explorer** and enter **C:\Data\Logs\Recent.html** in the address bar then press **<Enter>.**

7 Search for **Valid locking code** and send this code to **Quantel 24 Hour Support** (contact details at start of this User Guide) for license generation.

Running the software for the first time (step 4 above) is important as it populates the remainder of the registry entries that are not created by the Settings panel.

Install License

1. When you have received the new license file from Quantel 24 Hour Support, save it as **C:\Data\Licenses\lservrc.lic**
2. Go to **Start – All Programs – Quantel – QTube Transformer Vx.x rev x.xxx** then right-click on **Settings** and press **Run as administrator.**
3. Select **License** from the drop-down in the top-left of the Settings window. Ensure the **License file location** is set to **C:\Data\Licenses\lservrc.lic**
4. Tick **Local** and then press **OK.**
5. Close the **Settings** window.
6. Right-click on the **QTube Transformer** desktop icon and select **Run as administrator.**
7. The application should now launch. Press **<CTRL> + <F9>** to exit.
8. Go to **Start – All Programs – Quantel – QTube Transformer Vx.x rev x.xxx – Settings.**
9. Select **License** from the drop-down in the top-left of the Settings window. Licenses should now be populated.

Change Quantel Settings

This section describes the various options that must be entered in the Quantel Settings Window.

The first step is to configure QTube Transformer in order for it to be able to communicate to an ISA Manager:

1. Go to **Start – All Programs – Quantel – QTube Transformer Vx.x rev x.xxx – Settings.**
2. Select **Network** from the drop-down in the top-left of the Settings window. Set **ISA Zone HTTP paths (comma separated)** to the location of the ISA Manager's

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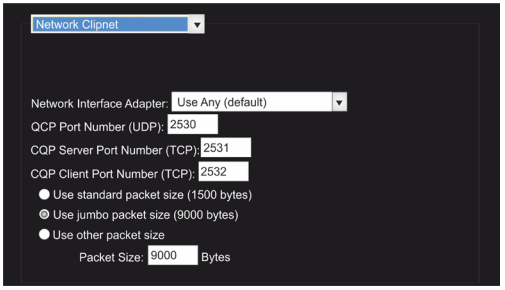
ZonePortal IOR eg, http://my-isa/ZoneManager.ior

3 Deselect **Essence Transfer – Use ISA Browse Manager.**

4 Set **Essence Transfer – Allocating Pool** to the default pool number on the ISA Manager you are using.

5 Keep the **Settings** window open...

Clipnet must now be instructed to use the Quantel cluster interface for video transfer:



1 Select **Network: Clipnet** from the drop-down in the top-left of the Settings window.

2 Set **Network Interface Adapter** to **quanet.**

3 Tick the **Use jumbo packet size (9000 bytes)** radio button.

4 Keep the **Settings** window open...

If you have video encoded as DV100 or AVCI on the server then you need to enable the license check:

1 Select **Options** from the drop-down in the top-left of the Settings window.

2 Tick either **Enable DV100 license check** or **Enable AVCI license check** (depending on sQ formats enabled)**.**

3 Keep the **Settings** window open...

The Quantel web interface defaults to port 80 which is already in use by IIS so it must be changed:

1 Select **HTTP Server** from the drop-down in the top-left of the Settings window.

2 Set **HTTP Port number** to **8080.**

3 Keep the **Settings** window open...

Finally set QTube Transformer to restart immediately if it crashes:

1 Select **Startup** from the drop-down in the top-left of the Settings window.

2 Deselect **Pause on crash.**

3 Press **OK** to apply all the previous values and close the Settings window.

4 Create a shortcut in the startup menu. Navigate to: **C:\Users\User\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup** and create a shortcut pointing to the QTube Transformer .exe file.

IIS Installation

IIS (Internet Information Service) can now be installed. Windows 2008 Server R2 is pre-loaded with all necessary software; Windows simply has to be instructed to install it:

1 Next to the **Start** menu button there is a picture of a server and a tool box, this is the Server Manager; press this.

2 Select **Roles** from the tree menu on the left.

3 In the **Roles Summary** section on the right, press the **Add Roles** link.

4 This launches the **Add Roles Wizard**. Skip the introduction page by pressing **Next.**

5 The next screen is a list of check box options ready for selection. Tick **Web server (IIS)** and press **Next.**

6 Press **Next** to pass a page of instructions.

7 You will be shown a list of IIS options. In addition to the options that are already ticked, add the following and then press **Next**:

HTTP Redirection –required in order to hide web services on other hosts behind this one
Basic Authentication – Password challenge

8 Press **Next** and then the **Install** button to continue.

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Modify IIS Configuration

1 Edit the following IIS XML Configuration file:

C:\Windows\System32\inetsrv\config\applicationHost.config

2 Navigate to **configuration** – **configSections** – **sectionGroup** (name=system.webServer)

3 Edit the handlers line from:

<section name="handlers" overrideModeDefault="Deny" />

to:

<section name="handlers" overrideModeDefault="Allow" />

4 Edit the module line from:

<section name="modules" allowDefinition="MachineToApplication" overrideModeDefault="Deny" />

to:

<section name="modules" allowDefinition="MachineToApplication" overrideModeDefault="Allow" />

5 Then restart IIS.

Install Streaming Software

Before the streaming software is installed, Windows security has to be set-up to allow the software download. You can skip the first section if you have installed another browser. If you haven't then do the following:

1 Launch **Internet Explorer** web browser.

2 Press the **<ALT>** key to display the **File** menu, then select **Tools – Internet Options.**

3 Open the **Security** tab and highlight **Trusted sites.**

4 Press the **Sites** button.

5 In the **Add this website to the zone** box enter **http://download.microsoft.com/**

6 Press **Add.**

7 Do the same for: **http://*.iis.net/**

8 Press **Close** then **OK** to return to the browser.

Install IIS Extensions

IIS Extensions now needs to be installed using the Web Platform Installer:

1 Launch **Internet Explorer** web browser.

2 Navigate to **http://www.microsoft.com/web/downloads/platform.aspx** and press **Download It Now.**

3 Keep pressing **Run** and **Yes** until it has loaded the web installer.

4 When it loads, select **Product** from the top, then **All** from the left navigation list.

5 The page displays a list of installable options. For simplicity, use the search box at the top to locate individual components.

6 Search for each of the following components listed below and press the **Add** button next to each. If there is a choice, select the latest version. If the **Add** button does not work, use the <↑> and <↓> keys and the <space> bar to add or remove items:

Application Request Routing
Microsoft .NET Framework (v4)
URL Rewrite
Web Farm Framework (v2+)

7 Press **Install**. The installer now adds a couple of extra dependencies.

8 Press **I Accept the EULA.**

9 Wait for installation to complete, then press **Exit.**

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Enable IIS Proxy

The IIS proxy must now be enabled:

1. Launch the IIS Manager program. Go to **Administrative Tools – Internet Information Services (IIS) Manager.**
2. In the **connections** panel, highlight the **HOSTNAME (HOSTNAME\Administrator)** component of the tree.
3. Double-click **Application Request Routing Cache** from the central panel, then in the **Actions** panel (on the right) press **Server Proxy Settings...**
4. Tick **Enable proxy**. You can set-up various proxy settings in this pane if required, but it is recommended that the default settings are used.
5. Press **Apply** from the **Actions** panel.

Install Video Streaming Software

Finally, the video streaming software must be installed:

1. Navigate to: **http://www.iis.net/download/SmoothStreaming**
2. On the right in the **Download Extension** box, press the **x64** link under the **Install** button for **IIS Media Services 4.0**. IMPORTANT: do not download the 32-bit version by default.
3. **Run** all the files downloaded. When IIS Media Services 4.0 Set-up pops up, accept the EULA and the default packages to install.
4. Verify this has been installed by closing and reopening IIS Manager and navigating to the default website. In the main window, under the **Media Services** category, you should see both **Smooth Streaming** and **Live Smooth Streaming** features.

Security

About Certificates

These settings depend on the organisation's set-up and there are several security options you can choose. These instructions describe how to create a self-signed certificate then share it with the other machines in the cluster. A self-signed certificate is free to create and use.

The effect of this is that new visitors to the site are informed that it is a valid certificate but it has not been verified by a trusted site. The user will have to accept this and save the certificate locally.

It is the responsibility of the organisation to arrange a server certificate from a 'Trusted Authority' should one be required. Quantel cannot apply for one on another organisation's behalf (a restriction put in place by the signing authority). On receipt, it can be imported using the instructions below.

Certificate Creation

On one of the machines the certificate must be created and on the others it must be imported. These are the instructions for creating self-signed certificates and exporting them:

1. Launch the IIS Manager program. Go to **Start – All Programs – Administration Tools – Internet Information Services (IIS) Manager.**
2. In the **Connections** panel, highlight the **HOSTNAME (HOSTNAME\Administrator)** component of the tree.
3. Double-click **Server Certificates** and press **Create Self-Signed Certificate...**
4. In the **Specify a friendly name for the certificate** field, enter the domain name of the cluster, which is the fully qualified name that will be used to access the cluster. Press **OK.**
5. Highlight the new certificate and press **Export...** from the **Actions** panel on the right.
6. In the **Export to** field enter C:\<cluster-name> where <cluster-name> is the name of your cluster; don't add an extension.

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7 Enter a password into the **Password** and **Confirm password** fields, and then press **OK.**

8 Open Windows Explorer and navigate to **C:** where you stored the certificate and copy it to somewhere centrally available.

Install Certificates on Each Client

On each client you must install the certificate, otherwise you will be challenged each time you try and use it. These instructions define how to import the certificate:

1 Launch the IIS Manager program. Go to **Start – All Programs – Administration Tools – Internet Information Services (IIS) Manager.**

2 In the **connections** panel, highlight the **HOSTNAME (HOSTNAME\Administrator)** component of the tree.

3 Double-click **Server Certificates** and press **Import...** from the **Actions** panel.

4 Navigate to the shared location of the PFX file and enter the password you created it with.

5 Press **OK**.

When you have created or imported the certificate you must 'bind' it to the port you wish to use:

1 Launch the IIS Manager program. Go to **Start – All Programs – Administration Tools – Internet Information Services (IIS) Manager.**

2 Our host is listed in the **Connections** panel on the left hand side; expand it.

3 Expand **Sites** and highlight **Default Web Site.**

4 Press **Edit Site – Bindings...** from the **Actions** panel on the right.

5 If you have finished testing you may remove the **http** binding.

6 Press the **Add...** button to **Add Site Binding.**

7 Set **Type** to **http** and set **IP address** to **All Unassigned.**

8 Set **Port** to probably **443** (for https).

9 Set **SSL Certificate** to the certificate you have just installed and press **OK**.

Authentication

1 Launch the IIS Manager program. Go to **Start – All Programs – Administration Tools – Internet Information Services (IIS) Manager.**

2 In the **Connections** panel, highlight the **HOSTNAME (HOSTNAME\Administrator)** component of the tree.

3 Double-click **Authentication** from the central panel.

4 Right-click on **Anonymous Authentication** and select **Disable.**

5 Right-click on **Basic Authentication** and select **Enable.**

6 Highlight **Basic Authentication** and press **Edit...** from the **Actions** panel.

7 Set **Default domain** to the transformer's fully qualified domain name as used to access it from a browser at an external site.

8 Set **Realm** to **qtube.**

9 Press **OK**.

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Search Service Setup

The Search service is a separate zipped package (Search V2.0.1.0.zip) which can be installed on any PC or on the Transformer, but must **not** be installed on the ISA Manager.

The first step in configuring the Search service is to extract the package to C:\Data\Search V2.0.1.0.

The configuration file for the Search service is located on the transformer by accessing webserver/quantel/config.xml. As a shortcut, execute bin/configure.bat.

Any changes made to the ISA Manager may seriously impact workflow and system network traffic. DO NOT change any settings unless you are a qualified engineer. Always contact Quantel 24 hour support for advice beforehand.

Web Server Port

By default, the Search service starts on port 8182. You can change that setting by editing the attribute webserverPort in the configuration file.

ISA Settings

The Search service can only index one ISA Zone. The Search service must be configured with the URL of an ISA in that Zone. You can also specifiy an ISA master/slave URL pair. Given a ISA URL in the form http://[host]:[port]/ZoneManager.ior the Search service will attempt to fetch the IOR at the following URL: http://[host]:[port]/ZoneManager.ior

The Search service also requires the appropriate user name/password for accessing the ISA database via JDBC.

Customise Log Output

You can customise the log output of the Search service before it is started. This can be done by overriding the logback configuration file located under webserver/quantel/extra/logback.xml

By default, log files are produced under the folder webserver/logs.

Search Service Access

Ensure that the property “SearchPath” in the ISA manager is set to the location of where the Search service resides, ie if Search service PC IP address is 10.10.10.10 then this path is http://10.10.10.10:8182/. The URL of the Search service must be entered into the ISA Manager property ‘SearchPath’ so that it can be found by QTube Transformer:

1 On the ISA Manager web interface, navigate to **Configure – Properties.**

2 The **SearchPath** must be pointed to the top level or root of the Search service, eg http://10.1.2.3:8182/.

The Search service can be controlled by tools located under the bin folder. Most tools use the search.bat command line interface. Execute search.bat -help for some help messages on how to use it.

The Search service needs to be running, in order to populate the server bin with clips. Execute bin\start_search.bat to start the Search service.

The Search service is ready when “- Waiting for an indexing operation to be submitted.” has been displayed in the console window.

You can check that the Search service is running by opening the following URL:

http://localhost:[port]/quantel/search/select?q=*

Alternatively, execute search -status.

Execute stop_search.bat or search -stop to stop the Search service.

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Associate IIS with Transformer

In order to connect to the shared Quantel files and folders, the QTube Transformer application must first be started.

After launching the QTube Transformer application, do the following:

Connect to QCIFS Drive

1. Open a new **Windows Explorer** window.
2. Press the **Map network drive** button at the top of the window.
3. For **Drive** choose the drive letter **Q.**
4. For **Folder** enter **\\ip_address\quantel** (where ip-address is the IP address of the QTube Tranformer machine in our case localhost ie:**127.0.0.1\quantel**).
5. Tick the **Reconnect at logon** box.
6. Press **Finish**.

Notify IIS of QTube Transformer

Now IIS must be notified of the QTube Transformer application:

1. Launch the IIS Manager program. Go to **Start – All Programs – Administration Tools – Internet Information Services (IIS) Manager.**
2. The host is listed in the **Connections** panel on the left hand side; expand it.
3. Select **Application Pools.**
4. Double-click **DefaultAppPool** and set **.NET Framework version** to .**NET Framework v4.x.xxxxx**
5. Press **OK.**

6 Expand **Sites**, highlight **Default Web Site** and then right-click and select **Add Application...**

7 Set **Alias** to **quantel.**

8 **Application pool** should remain set to **DefaultAppPool.**

9 Set **Physical path** to **127.0.0.1\quantel** and then press **OK**.

Now that a virtual directory is registered with a real directory, QTube Tranformer can be closed down by pressing **<CTRL> + <F9>**.

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Set-up QTube Browser

Install Silverlight

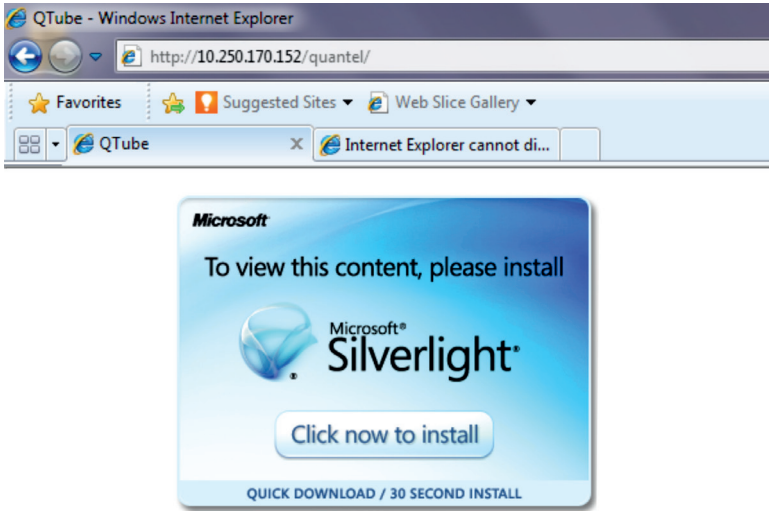
To enable clients to stream video from the QTube Transformer, each client must have Microsoft Silverlight installed.

To install Silverlight do the following:

1 From the client PC, open an internet browser.

2 Enter the IP address of the QTube Transformer PC eg, http://10.1.2.3/quantel/

3 If you have not already installed Microsoft Silverlight, a pop-up appears requesting installation.



4 Press **Click now to install** and follow the on-screen instructions to install Silverlight. Silverlight now appears within the internet browser window.

Shared Storage Setup

Enabling the Shared Bins function allows bins created on the QTube Browser to be shared with any other users accessing the same Transformer. In order to use the Shared Bins function this must first be enabled using the Transformer:

1. On the Transformer PC create or select a folder to store the shared bins.
2. Open the IIS Manager.
3. Navigate to Default Web Site. Right click on Default Web Site and select Add Virtual Directory.
4. Set the Alias as 'shared' and select the desitination folder you wish to store the shared bins in.
5. Ensure that there is a copy of the BasicSharedBinsProviderService.ashx file provided with the software in the same folder.

Multisite QTube Browser Setup

If a customer has multiple sites with transformers set up at each then it is possible to set up multisite browser access allowing the user to browse material at all sites. The site administrators for each site will have to create a new xml file called clientaccesspolicy.xml in C:\inetpub\wwwroot on the Transformer, which explicitly grants access from the other two sites. For example if the customer has three sites with three Transformers located at http://xx.xx.xx.xx:pp, http://yy.yy.yy.yy and http://zz.zz.zz.zz, then the site administrator for site http://zz.zz.zz.zz would add the following client access policy:

```
<?xml version="1.0" encoding="utf-8"?>
 <access-policy>
  <cross-domain-access>
   <policy>
    <allow-from http-methods="*" http-request-headers="*">
     <domain uri="http://xx.xx.xx.xx:pp"/>
```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```
    <domain uri="https://xx.xx.xx.xx:pp"/>
    <domain uri="http:// yy.yy.yy.yy"/>
    <domain uri="https:// yy.yy.yy.yy"/>
   </allow-from>
   <grant-to>
    <resource path="/" include-subpaths="true"/>
   </grant-to>
  </policy>
 </cross-domain-access>
</access-policy>
```

The site administrators for sites x and y will have to add similar files allowing access to the other sites.

Accessing a site using HTTPS without a trusted certificate

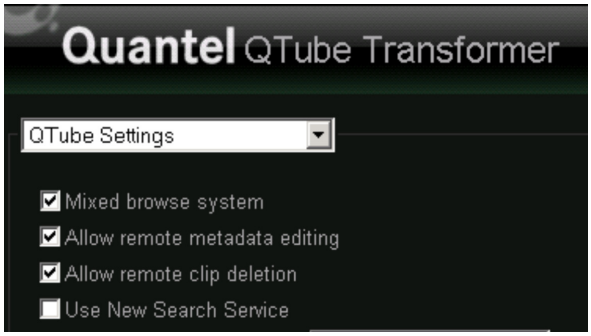
If you are using HTTPS to access QTube Browser and do not have a trusted certificate on a particular site, you will need to add an exception to your browser. The easiest way to do this is to load the QTube Browser from that site. Your web browser should automatically give you an option to add an exception. Once this is done you should be able to add this to your list of available sites.

Transformer Settings

Transformer settings can only be set by the administrator.

Open the Transformer settings application by pressing **Start – All Programs – Quantel – QTube Transformer Vx.x rev x.xxx –Settings.**

Setting a Mixed Browse System



If you upgrade from using MPEG1 browse to H.264 you may have a mixture of clip formats. In this case you can set QTube to browse mixed formats.

Select **Mixed browse system** in the QTube Settings page in the Transformer Settings application.

You can leave this selected when all clip formats are H.264 as it does not affect the browse material.

Allow Metadata Editing

To be able to edit metadata in the QTube Browser and QTube Edit, the **Allow remote metadata editing** tick box must be selected in the Transformer settings application (see previous screen shot).

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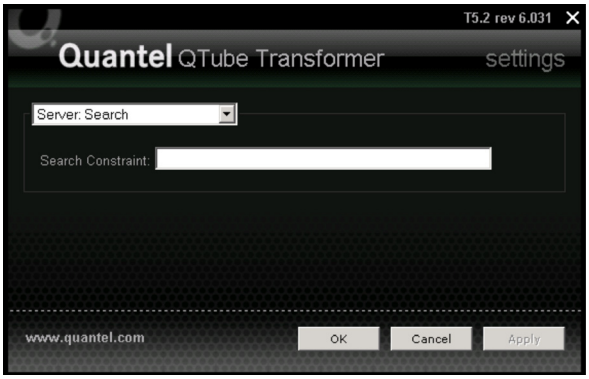
Allow Clip Deletion

Clips cannot be deleted from the QTube Browser. Clips can be deleted from QTube Edit if the **Allow remote clip deletion** option is selected in the Transformer settings application (see screen shot above).

Setting Search Constraints

QTube Transformer settings allow you to set-up search constraints on any connected client.

To set-up a search constraint do the following:



1. Select Server Search from the drop-down list in the QTube Transformer settings application.
2. Enter a constraint in the Search Constraint field.

Constrains take the form: **+AND+*Metadata Type*:*Constraint***

For example: **+AND+Title:Recording**

This example means there is a search constraint that only allows users to search among clips that have all or part of the title as ‘Recording’.

3. After entering the constraint in the **Search Constraint** field, press **OK**.

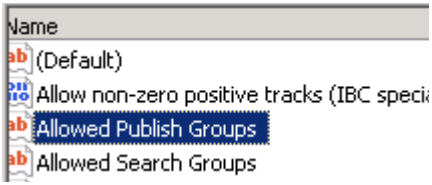
Setting Group Area Constraints

QTube Transformer settings allow you to set-up specific areas for groups of users. For example, assign access to specific areas to a group of users such as Editors. The specific areas are set-up via the ISA manager by an engineer. Setting a specific group to have access to an area through the Transformer settings affect all clients that are connected to the Transformer.

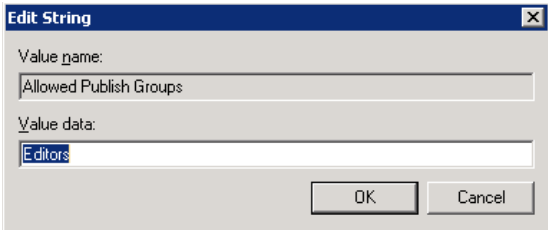
To assign a group of users to have access to specific areas do the following:

1 Open a file browser on the Transformer and navigate to the path:

Quantel – QTube Transformer\Quantel \QuentinCorba



2 Double-click on **Allowed Publish Groups** in the right-hand panel.



3 Enter the group value in the **Value data** field (eg Editors).

4 Press **OK**.

5 Restart the Transformer.

Video & Audio Folders

If your transformer does not have dedicated audio and video disks/ partitions you need to make sure that the audio and video folders are set to a drive/ partition which has enough space to store enough video/ audio for clips published via QTube. For an hour of DV100 space will require approx. 50GB. 15GB audio space will provide about 2hours 45minutes of 8ch audio. (Figures are based on PAL system). On QTube Transformers supplied by Quantel there is normally enough space in the Data Partition to set this up.

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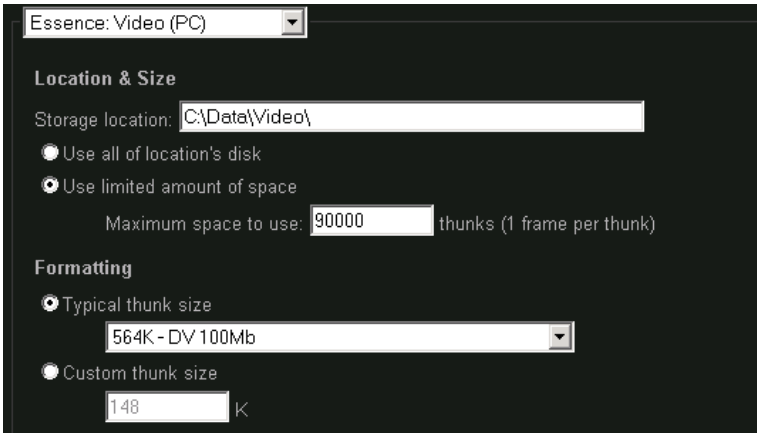
Open up the QTube Transformers settings control panel: Start> Programs> Quantel

In the Essence: Audio drop down set:

In the Essence: Video (PC) drop down set:



Changing the Browser Logo

To change the logo on the QTube Browser do the following:

1. Save the new logo as a PNG file titled “logo” (eg **logo.png**)
2. Insert the **logo.png** file into the following directory:

   C:\\inetpub\wwwroot

3. Restart the Transformer to action the change.

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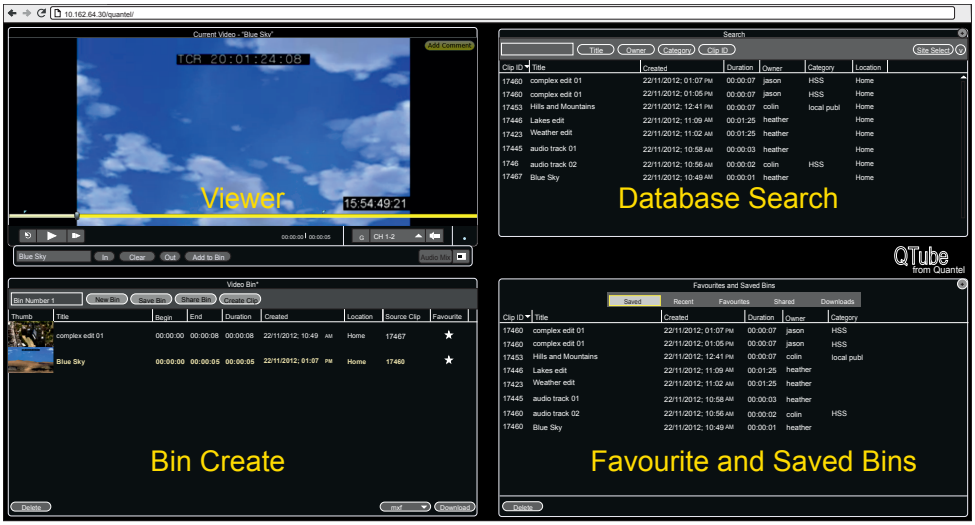
QTube Browser

Quantel

Overview

The QTube Browser allows you to access media remotely from several different locations using a web browser. It consists of 4 different areas: the Database Search area, the Viewer area, the Bin Create area and the Favourite and Saved Bins area.



The QTube Browser's functions include:

a Searching for media.

b Play-back of remote media including live/growing files, completed recordings, file ingests and edited sequences.

c Adding production notes.

d Downloading server-based media.

e Creating playlists and shot selections.

f Publishing media which can then be accessed by QTube Edit and other server connected workstations.

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Opening the QTube Browser

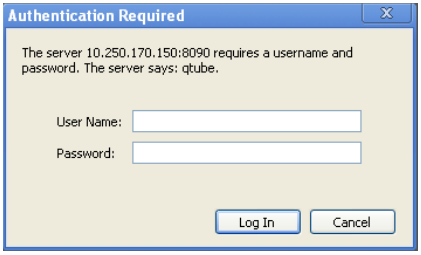
If basic authentication is enabled via the IIS Manager program (see 'Authentication' in chapter 1) the QTube Browser is password protected. Your administrator must create an account for you and provide you with a user name and password.

To open the QTube Browser do the following:

1 Open an internet browser.

2 Enter the IP address of the QTube Transformer (supplied by your system administrator).

If you have not already installed Microsoft Silverlight, a pop-up appears prompting you to do so. See 'Set-up QTube Browser' in the previous chapter.

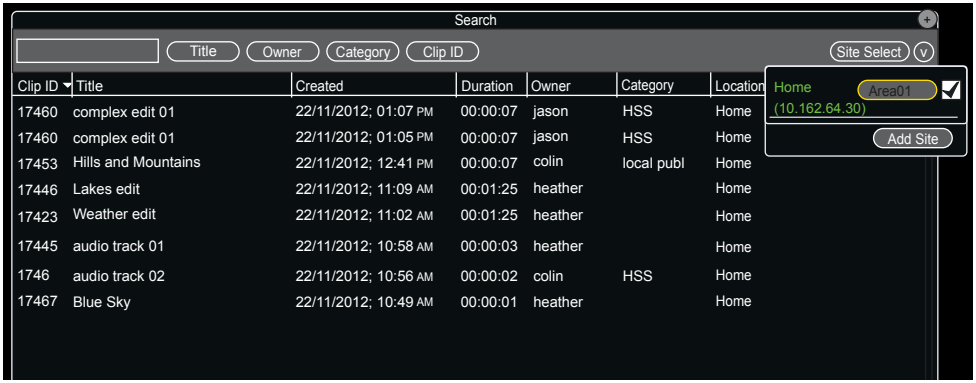


3 Enter your user name and password and press **Log In**.

Searching for Media

The Database Search area allows you to perform simple or advanced searches on remote servers.

Select the server you want to search by pressing **Site Select** in the top-right of the window and then selecting an Area from the pop-up, eg **Area01**. You can add a new server to the list of connected servers by pressing **Site Select** – **Add Site** and then entering the name and URL of the server. Add multiple servers in the **Site Select** pop-up and then use the adjacent tick boxes to specify the servers you want to search.



Open Search

An open search allows you to search for all available media on the selected server. To perform an open search do the following:

1. Click in the search box to the left of **Title**.
2. Leave the search box empty and press <Enter>. All the available media on the selected server displays in the search window.

Simple Search

A simple search can be used to search for a keyword. The search can be further specified to search within a type of metadata (**Title**, **Owner**, **Category** or **Clip ID**).

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To perform a simple search do the following:

1 Click in the search box to the left of **Title**.

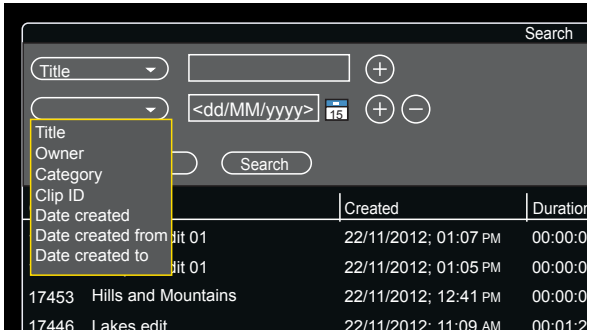
2 Type a keyword in the box.

3 To search all metadata press <Enter>. To search within a specific type of metadata press on the metadata type (**Title**, **Owner**, **Category** or **Clip ID**) to the right of the search box. Media matching the search criteria displays in the search window.

Advanced Search

You can specify multiple search parameters using an advanced search. To perform an advanced search do the following:

1 Press the more button (**v**) to the right of **Site Select**.



2 From the drop-down list choose a metadata type (eg **Title**, **Owner**, **Category**, **Clip ID**, **Date created**, **Date created from** or **Date created to**).

3 Enter the information you want to search for to the right of the drop-down (eg enter a keyword or a date).

4 To add another search parameter, press the "**+**" button. A new drop-down list appears under the first which behaves in the same way. If you want to remove search criteria, press the "**–**" button to the right of the criteria you want to remove.

5 After entering all the criteria you want to search for press **Search**.

Wild Cards

You can use wildcard characters including '**&**' between two words, or '**?**' for a single character, or '*' for multiple characters. Now press <Enter> or **Search**.

Saving Searches

The advanced search options allow you to save searches. To do this press **Save as**, enter a title for the search and then press **Save**.

Loading Saved Searches

To load previously saved searches do the following:

1 Press **Open**.

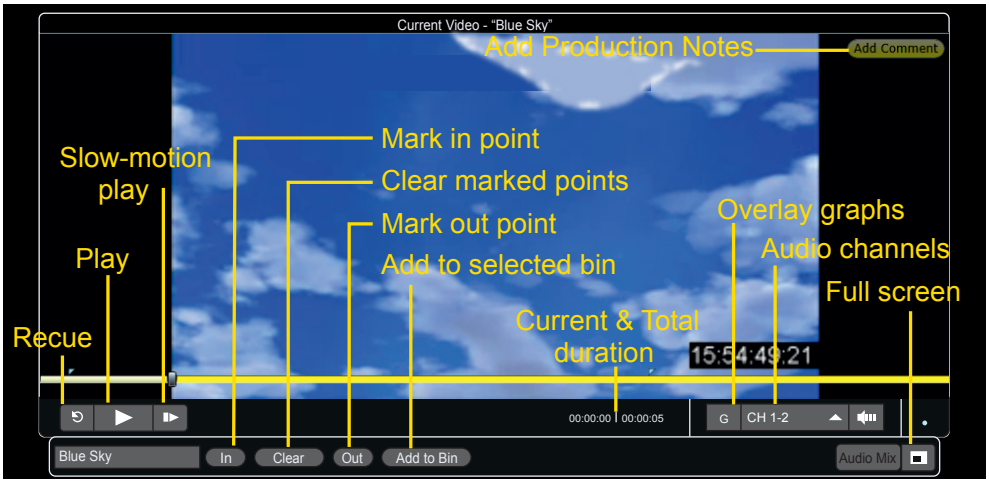
2 Enter the title or part of the title.

3 Press **Search**. This performs a search using the previously saved parameters.

Playing-back a Clip

The Viewer window allows you to add and edit metadata, mark shot selections and play-back clips.

To play-back a clip in the viewer window, double-click on the clip title in either the Database Search window or the Bin Create window. The selected clip now plays in the Viewer window. The Viewer window has several controls.



The current and total duration of the clip is displayed under the video.

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Video Controls

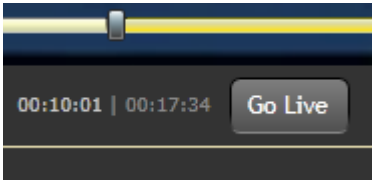
You can recue and play a clip in real-time or in slow motion (50% normal speed) using the controls in the bottom-left of the Viewer window. See previous diagram.

The current play-back position is marked with a grey cursor on the timeline. Hovering the mouse over the timeline displays a thumbnail preview of that particular frame.

The clip can be viewed in full screen mode by pressing the icon in the bottom-right corner of the window.

Keyboard shortcuts can also be used to control clip play-back:

<Spacebar>	Play/Pause
<K>	Jump forward 10 seconds
<J>	Jump back 10 seconds
<6>	Play from in point
<Q>	Jump to in point
<W>	Jump to out point



If you are viewing media that is currently recording into the server, a **Go Live** button appears. When you press this, play-back will jump to the live record head.

Press **Add to Bin** to add the current clip to a playlist (see 'Creating a Playlist' later in this chapter for more details).

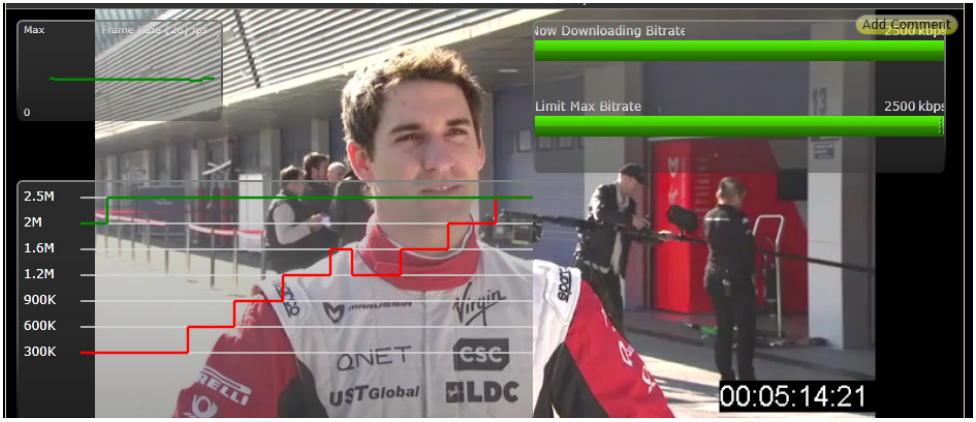
Audio Controls

You can use the **CH** scroll box to assign audio channels (**1-2**, **3-4**, **5-6**, or **7-8**). Playback volume can be adjusted by accessing the icon.

Use the **Audio Mix** button to set mixed audio tracks for playback and WAV download. This produces a stereo audio file with the mix selected.

Adding a Graph Overlay

You can press the G icon in the bottom-right of the window to overlay streaming graphs.



The graphs display data indicating instantaneous internet bandwidth and frames per second. Limit the browser download bandwidth by dragging the handle on the right of the **Limit Max Bitrate** slide bar.

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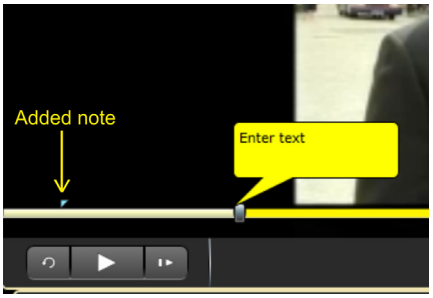
Adding Production Notes

You can add production notes to any point of the clip. Comments are written directly to the ISA database in the remote server. They can be viewed locally in the QTube Browser or on QTube Edit and are visible to anyone using a server-connected workstation.

To add a production note, navigate to the required point on the timeline then press **Add Comment** in the top-right corner of the window.



A pop-up then appears at the current timeline position prompting you to enter text. After entering the text press <Enter> to assign the note to the current position.

Added notes are indicated by a blue marker on the browser timeline. Hover the cursor over a marker to read the assigned notes.

You can use the left and right arrow keys to move between the existing notes.

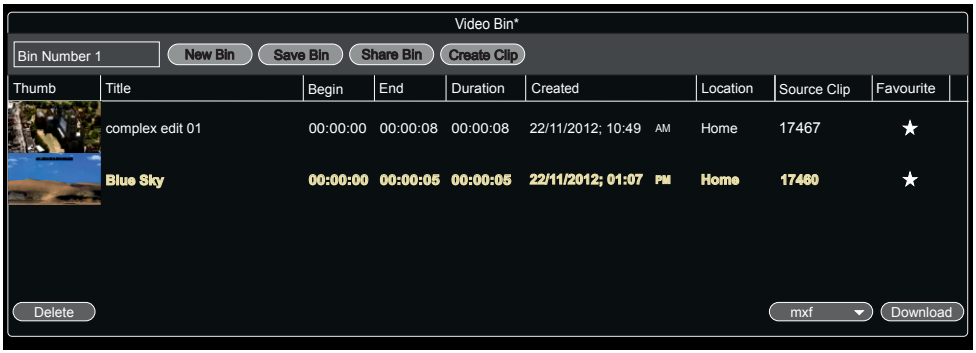
Editing Existing Notes

When you select an existing production notes the **Add Comment** button in the top-right corner of the window toggles to **Edit Comment**. You can change the currently selected comment by pressing **Edit Comment** and entering new text.

When an existing note is edited on a remote clip, the change appears throughout the entire sQ system.

Creating a Playlist

You can create a playlist of clips and clip sections in the Bin Create window. Each shot is displayed with a thumbnail and metadata including **Title**, start timecode (**Begin**), **End** timecode, **Duration**, date and time **Created**, **Location** and **Source Clip** ID. There is also a column that allows you to mark a clip as **Favourite**.



Adding Clips & Clip Sections to a Playlist

Adding a Full Clip

Press **Add to Bin** in the Viewer window to add the currently loaded clip in the image window to the Bin Create window.

Adding a Section of a Clip

To mark a section of a clip use the **In** and **Out** buttons in the Viewer window. You can remove any in and out points by pressing **Clear**. There are also keyboard shortcuts for these functions:

<I>	Mark in point
<O>	Mark out point
<G>	Clear points

After marking the in and out points press **Add to Bin** to move the marked section only to the Bin Create window.

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Removing Clips from a Playlist

You can remove clips by doing the following:

1. Select the clip you want to remove.
2. Press **Delete** in the bottom-left corner of the window.

If you press **Delete** without selecting a clip, the clip that was last selected is deleted. Removing a clip from a playlist does not delete the clip from the server.

To remove multiple clips simultaneously do the following:

1. Hold <Ctrl> and press on the clips you want to remove, or press <Ctrl>+<A> to select all the clips in the playlist.
2. Press **Delete** in the bottom-left corner of the window.

Creating a New Playlist/Clearing a Playlist

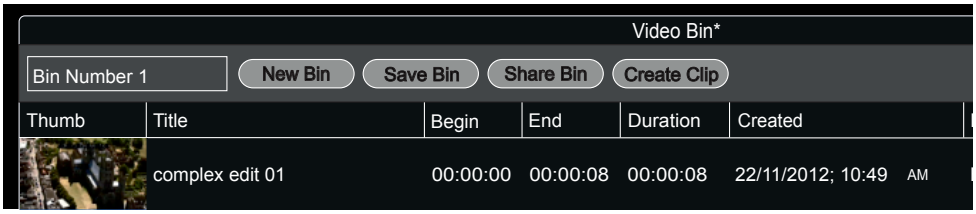
To create a new playlist or to clear a current playlist from the window, press **New Bin**. This clears all the existing clips and allows you to create a completely new playlist.

Ensure you save any playlists before clearing them as you cannot undo the clear.

Creating a Bin from a Playlist

After creating a playlist, you can save it as a bin so that it appears in the Favourite and Saved Bins window. To save a playlist as a bin do the following:

1 Enter a name for your bin in the title box in the top-left corner of the shot selection window (eg **Bin Number 1**).



2 Press **Save Bin**.

3 The bin is saved locally and appears in the bin share window with the name you specified it as.

Sharing a Bin

When a bin is shared it is stored on the Transformer so that anyone using the QTube Browser is able to access it. To share a bin press **Share Bin** in the Bin Create window. Note that bin sharing needs to be setup by a system administrator.

To setup bin sharing, see Shared Storage Setup in chapter 1.

Creating & Publishing a Clip from a Playlist

The clips in a playlist can be combined to make a new edit and then published back to the server.

In the QTube Browser you can create 'cuts only' edits ie with no transitions. Video transitions can be added using QTube Edit (See 'Adding Video Transitions' in chapter 3).

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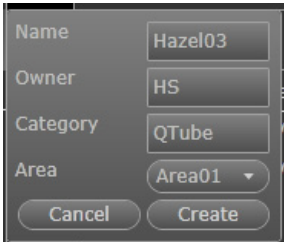
After you have added all the clips you want to use in the Bin Create window, press **Create Clip**.



A pop-up appears prompting you to specify metadata including **Title**, **Owner**, **Category** and **Area** to save with the new edit.

After specifying the metadata, press **Create** to publish the clip to the Area you have specified or press **Cancel** to abort the clip creation.

Viewing Saved & Shared Bins

The Favourite and Saved Bins window in the QTube Browser can be used to view different bins and monitor the progress of downloads. The tabs in this window include **Saved**, **Recent**, **Favourites**, **Shared** and **Downloads** which can be selected to view the associated bins.

Favourites and Saved Bins

Saved | Recent | Favourites | Shared | Downloads

Clip ID	Title	Created	Duration	Owner	Category
17460	complex edit 01	22/11/2012; 01:07 PM	00:00:07	jason	HSS
17460	complex edit 01	22/11/2012; 01:05 PM	00:00:07	jason	HSS
17453	Hills and Mountains	22/11/2012; 12:41 PM	00:00:07	colin	local publ
17446	Lakes edit	22/11/2012; 11:09 AM	00:01:25	heather	
17423	Weather edit	22/11/2012; 11:02 AM	00:01:25	heather	
17445	audio track 01	22/11/2012; 10:58 AM	00:00:03	heather	
17460	audio track 02	22/11/2012; 10:56 AM	00:00:02	colin	HSS

Saved Bins

The **Saved** tab displays all the saved bins. These are created in the Bin Create window (see previous section for details). You can import and export bins from the **Saved** tab by using the **Import** and **Export** buttons in the bottom-right of the window. A bin is exported as an XML file.

To remove bins from the **Saved** tab, select the bin you want to delete and then press **Delete** in the bottom-left of the window. You can delete multiple bins simultaneously

by holding <Ctrl>, selecting the clips you want to remove and then pressing **Delete**. Press <Ctrl>+<A> to select all the clips in the playlist.

Recent Bins & Clips

The **Recent** tab displays any recently played clips. You can remove clips from this tab by selecting the clip you want to delete and then pressing **Delete** in the bottom-left of the window. Removing clips in this window does not delete the clips from the server. To remove all recent clips, select all the clips by pressing <Ctrl>+<A> and then press **Delete**.

Favourites

The **Favourite** tab displays clips that have been marked as Favourite in the Bin Create window. You can remove clips from the **Favourites** tab by selecting the clips you want to remove and then pressing **Delete**.

Shared Bins

The **Shared** tab displays all the bins that have been shared across the network. You can export a bin from this tab by selecting it and pressing **Export** in the bottom-right of the window. You cannot delete shared bins using the QTube Browser. Shared Bins are stored on the Transformer PC and can only be deleted via the Transformer.

Viewing Downloads

You can view the progress of any downloads from the **Download** tab in the bin share window.

See 'Downloading Media' further in this chapter for more information.

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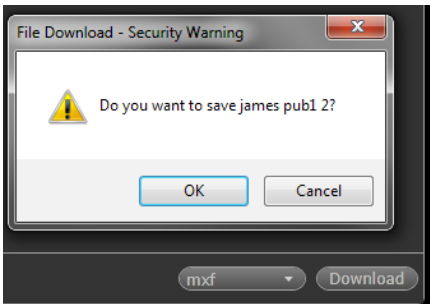
Downloading Media

You can download and save a high quality version of a clip from the Bin Create window. Download formats include **mxf**, **wav** or **mov**.

To download a clip and save it locally, do the following:

1 Select the clip you want to download in the shot selection window (bottom-left).



2 Select **mxf**, **wav** or **mov** from the format drop-down list in the bottom-right of the window.

3 Press **Download**. A pop-up appears asking if you want to save the selected file.

4 Press **OK** to save the file or **Cancel** to abort the download. Pressing **OK** opens a file browser.

5 Navigate to the desired save location and press **Save**.

Multiple clips from the Bin Create window can be saved locally by doing the following:

1 Hold <Ctrl> and select all the clips you want to download.

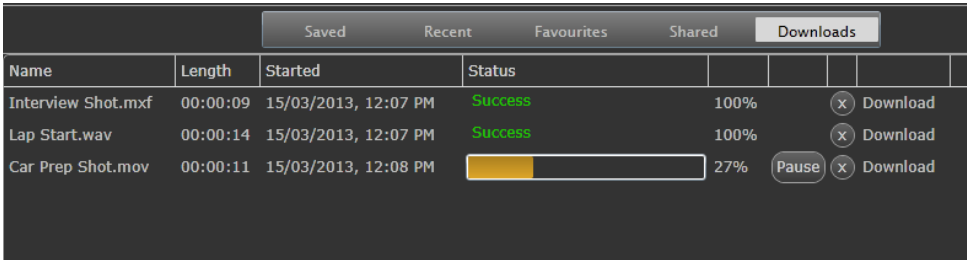
2 Select **mxf** from the format drop-down list.

3 Repeat steps **3** – **5** above.

Note that when multiple shots are downloaded and saved locally, they are stored as a TAR file. This file type has a size limit of 8GB.

Viewing Progress

The **Downloads** tab allows you to monitor the progress of any current downloads. Clips are displayed with metadata and a progress bar showing the status of the download.



As well a progress bar there is also a percentage column that allows you to see the progress of your download as a percentage.

You can pause the current download by pressing **Pause** to the right of the progress bar. Alternatively you can cancel the download by pressing the ⓧ icon to the right of the progress bar.

Once **Pause** is pressed it toggles to **Resume.** Press this to continue the download from the pause point.

If a download cannot be completed then the status will display Failed. When a download fails the Pause box changes to display a **Retry** option.

Once the download is complete the status is displayed as Success.

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QTube Edit

Quantel

Set-up QTube Edit

Each QTube Edit client requires installation and configuration:

The following options are usually set on installation by Quantel trained engineers with knowledge of Windows and networking. If in doubt, always contact Quantel 24 Hour Support before changing any setting.

Install the Software

1 Login as **Administrator.**

2 Double-click the **installer** application.

3 Select **QTube Edit.**

4 Press **Install.**

5 DO NOT IGNORE THIS STEP! Tick the **Run** box and press **OK.**

Running the software for the first time (step 5 above) is important as it populates the default registry settings.

Change Quantel Settings

This section describes the options that must be entered in the Quantel Settings Window:

1 Login as **Administrator**

2 Press **Start – All Programs – Quantel – QTube Edit V5.2 – Settings.**

3 Select **Network** from the scroll box at the top-left of the Settings window.

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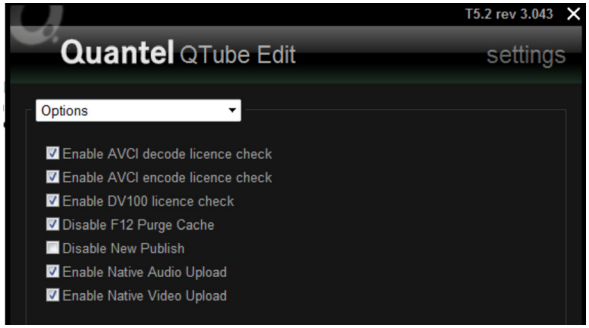
4 In the **QTube Transformer** field enter the web address of the QTube Transformer. Enter this in hostname or IP address format.

5 Press **OK** to apply the values and close the Settings window.

QTube Upload Settings

You can choose to upload either native video and audio files or compressed files using the **Options** page in the Quantel Settings application. By default, **Enable Native Video Upload** is unselected and **Enable Native Audio Upload** is ticked. In this case when video is published it is resized to 50% image dimensions and then compressed to 5 Mb/s H.264 Long GOP and audio remains uncompressed. The QTube Transformer re-expands to the original image size and re-codes to the home server's compression format.



For maximum quality tick **Enable Native Video Upload** and **Enable Native Audio Upload**. This takes much longer than a compressed video upload and you must ensure there is enough bandwidth capability for the native size.

For a fast upload of lower quality deselect both options.

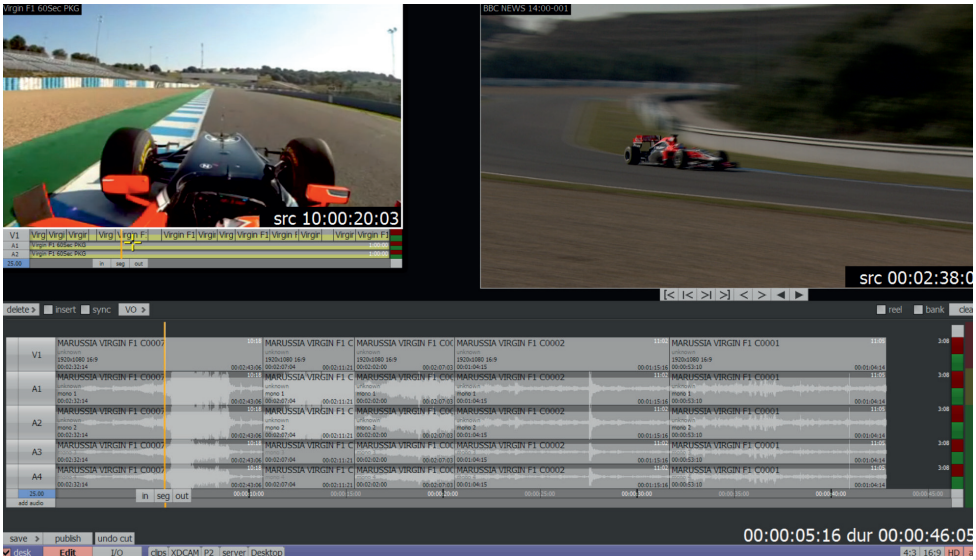
Authentication

If basic authentication is enabled via the IIS Manager program (see 'Authentication' in chapter 1) the QTube Edit is password protected. Your administrator must create an account for you and provide you with a user name and password.

To start QTube Edit, double-click the **Q** shortcut on the desktop and enter your username and password.

Overview

Available Functions



QTube Edit provides authorised users with the following functions:

a Search for remote sQ Server held clips using the Server Bin. From this bin you can search specific Zones or Areas* and sort clips by title, owner, category, date etc.

b View and edit the production notes added in QTube Browser via the associated clip or edit timeline.

c Open and edit any server-based clip regardless of image size, compression format and aspect ratio.

d Create a single layer timeline with any sQ clips.

e Trim, slip, slide, copy and delete any timeline segments.

f Add dissolve or wipe video transitions between segments.

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** access to media is restricted to Areas defined in QTube Transformer.*

g Modify audio using the following timeline tools:

Track or segment level controls
Audio level profile using keyframes
Crossfade between segments
3-band equalisation
Compressor/limiter
Stereo panning
Audio output patching as mono, stereo or quad
Audio level display for each track.

h Upload AAC compressed audio instead of uncompressed audio to save a large amount of data which increases the speed of the upload.

i Stereo or mono Voice Over function.

j Soft mount of external camera files using Essence Drivers. External drives may be connected via the network or USB2. Note that soft mounted media must be accessible throughout the editing session until publishing is completed; media cannot be localised. The XDCAM Essence Driver supports the following XDCAM formats:

SD DVCAM 25 Mb/s
MPEG IMX 30,40,50 Mb/s
50i or 59.94i

HD XDCAM HD 35, 25, 18 Mb/s (MPEG-2 MP@HL)
XDCAM HD 4:2:2, 50 Mb/s (MPEG-2 4:2:2P@HL)
1080 @ 50i or 59.94i
720 @ 50p or 60p

EX DVCAM 25Mb/s @ 50i or 59.94i
MPEG-HD 25 Mb/s 1080 @ 50i or 59.94i (MPEG-2 MP@HL)
MPEG-HD 35 Mb/s 1080 @ 50i or 59.94i, 720 @ 50p or 60p (MPEG-2 MP@HL)

The P2 Essence Driver supports the following formats:

SD DV, DVCPRO 25 Mb/s, DVCPRO 50 Mb/s
50i or 59.94i

HD DVCPRO HD 100 Mb/s
AVC-Intra 50 Mb/s
AVC-Intra 100 Mb/s

1080 @ 50i or 59.94i
720 @ 50p or 60p

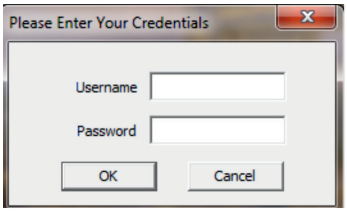
k Publish timeline to home sQ Server, including:

Publish to any Zone/Area defined in the QTube Transformer
Set Title, Owner, Category and VDCP ID
Select destination Area or Zone
Progress bar indicates publish process for local media
Publish status message is displayed.

An internet connection to the home ISA is required throughout the session; QTube Edit does not work standalone.
Intermittent connections, such as 3G/4G are not suitable.

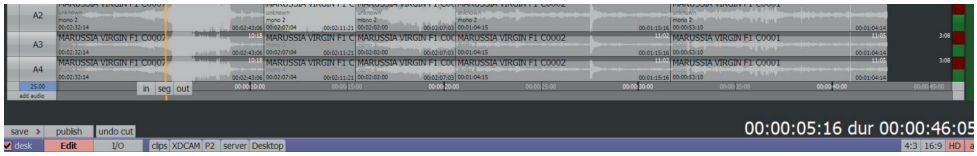
Starting QTube Edit

1 To start QTube Edit, select the **Q** shortcut on the desktop. A Quantel start-up window now appears as the software is launched.



2 At the 'credentials' prompt, enter your username and password then press **OK.**

3 The Quantel desktop now appears with the Application Bar along the bottom of the screen.



4 Press the *Edit* tab to launch the Edit application. To access media bins, press either the *clips, server, desktop, XDCAM* or *P2* tab.

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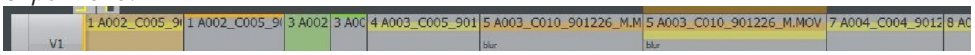
Remote Media Indicators on Timeline

When you have placed material on the timeline, a yellow bar on a segment indicates that this segment uses remote media. This includes soft mounted P2 and XDCAM media and sQ Server based material. The soft mount indicator can be enabled or disabled from the *Remote Media Indicator* tick box in the <F1> Configuration Window's *Clips* menu.



Note that when rendering is required, an orange bar appears above the clip segment.

See the Media Bins Guide for full details of how to use media bins, .

Using QTube Edit

Importing Media

Press the *I/O* tab on the Application Bar to launch the I/O application. Select the *Import* menu on the left to view import options. Import formats supported in QTube Edit include BMP, JPEG, MOV (QuickTime), MP3, MXF OP1a, WAV, WMV and WMA.

See the I/O User Guide for full details of how to import media.

Loading Clips onto the Timeline

You can insert clips onto the timeline in several ways:

a Drag and drop the clip onto the Edit Window.

b Drag and drop the clip onto the *Edit* tab on the application bar.

c Drag and drop the clip on the timeline (the clip is inserted at the current cursor point).

d From a Floating Clip press *more – edit*.

Using Basic Editing Functions

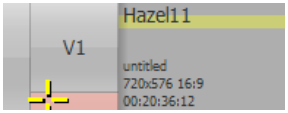
QTube Edit allows you to create edits and use basic editing functions.

See the Editing User Guide for full details of how to use the Edit timeline and associated functions, including Voice Over and audio tools.

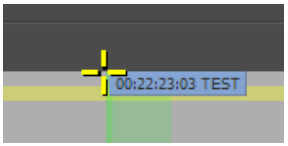
Viewing, Editing & Creating Production Notes

Viewing Production Notes

When a production note has been added via the QTube Browser or another sQ seat, it can be viewed on the clip in QTube Edit.



To display any existing notes on the timeline press either the V1 log button (see screen shot) or <Ctrl>+<L>.

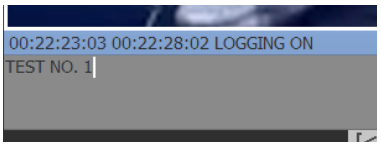


A product note appears on the timeline clip as a green highlighted section. Hover the cursor over the highlighted section to view the note. The note is also displayed with the timecode at the point where it was created.

Editing Existing Production Notes

To edit an existing production note on a timeline clip do the following:

1 Place the cursor over the green section so that the note appears.



2 Press <Ctrl>+<L>. The note then appears under the Edit Window ready for editing. The timecode is also displayed with the note under the Edit Window.

The note is editable when the timecode is highlighted in blue under the Edit Window and the words 'Logging On' are displayed next to the timecode (see screen shot). If the note is displayed in grey under the Edit Window, toggle the V1 log button on to make the note editable.

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3 Edit the text in the note as required.

4 To save the edited note back to the server, press <Ctrl>+<L> again. The note is now saved with the clip on the server.

Creating New Production Notes

You can create a new note on a timeline clip and save it back to the server. To create a new note, first make a selection on the clip at the point where you want it to display.

To create a new note do the following:

1 Press <F5>, <F6>, <F7> or <F8> to mark the beginning of a section.

2 Press <F12> to mark the end of a section. The space between the two points now highlights to show the whole marked section.

You can mark multiple sections which then display in different colours.

3 Hover over a highlighted section and press <Ctrl>+<L> to open the logging area under the Edit Window.

4 Enter a new note in the logging area.

5 Press <Ctrl>+<L> to save the new note on the clip timeline and on the sQ server.

Inserting Pre-assigned Note Keys

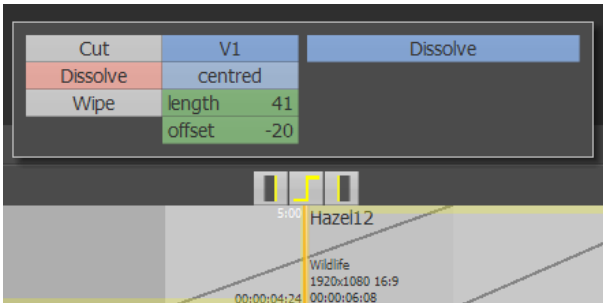
Each of the logging keys - F5, F6, F7 and F8 - can be assigned with a line of default text which will be entered automatically when an event is logged. The pre-assigned text can be set by the ISA Manager.

Press the pre-assigned key, eg <F5>, to insert the associated note at the current timeline position. After inserting a pre-assigned note, it can be edited in the same way as existing production notes. See 'Editing Existing Production Notes' previously in this section for more information.

Adding Video Transitions

QTube Edit allows you to insert video transitions (dissolves or wipes) between segments.

To add video transitions do the following:



1 Place the cursor on an edit point between segments and double-click or press <F5>

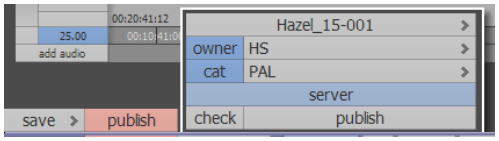
This opens a pop-up above the edit point.

2 Select *Dissolve* or *Wipe* from the list on the left of the pop-up.

3 Adjust the settings according to the right of the list, eg *length* and *offset*.

4 Click on an area outside the pop-up to close it.

Saving & Publishing



QTube Edit allows you to save and publish a clip edit from the timeline using the controls under the timeline.

To publish a clip back to the server press *publish*. This opens a pop-up. Enter the appropriate information, eg *owner* and *category*, and then press *publish* in the pop-up.

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Appendices

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Appendix A

About This Manual

This guide covers software available on some Quantel stand-alone and server-connected systems. It may cover functions or options not available on the system you are using.

This guide was written and published by Quantel. The bottom of each page displays the guide's reference number, eg **2140-57-018** plus a revision letter, eg **B** (B being more recent than A which is the original). The publish date is also indicated in the format **mm/yy**. If you require hard copies of this guide, always quote the reference number, revision letter and title.

2141-57-009			
revision	**publish date**	*ECO (Quantel use only)*	**software version**
A	06/11	E44291	5.1
B	**03/13**	**E44804**	**5.2**

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Notices

Maintenance

WARNING (WM2) SERVICE PERSONNEL – MAINTENANCE AND CALIBRATION WITHIN THE EQUIPMENT ENCLOSURE IS ONLY TO BE CARRIED OUT BY SERVICE PERSONNEL (12/97)

Conventions Used

Symbols

See: Reference to other items in this document or in other documents.

Notes: System, software and workflow points to consider and remember.

Tips: Useful hints and advice when undertaking tasks.

Information: Additional hardware or software information which may be useful.

Cautions: Indicate possible damage to (or misalignment of) the equipment if the indicated statements are ignored or the indicated procedures are not followed correctly.

WARNINGS: INDICATE DANGER TO LIFE AND LIMB IF THE INDICATED STATEMENTS ARE IGNORED, OR THE INDICATED PROCEDURES ARE NOT FOLLOWED CORRECTLY.

Text

<Text>	indicates a specific key press on the QWERTY keyboard.
Text/text	indicates a genQ menu function/option or an <F1> Configuration Window menu/setting. The first letter is either upper case or lower case to match the genQ GUI.
NN/nn	indicates a value entered on a numeric keypad.
Text/text	indicates either a Quantel control panel function or a Windows/ Quantel installation/system setting.

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This manual is not product specific and may detail features that are not available on all systems.

Helpdesk & Web Support

24 Hour Helpdesk

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email 24hour.support@quantel.com

Website & Downloads (manuals, drivers, plugins & software)

http://www.quantel.com go to support–downloads (login required)

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